

Configuration of controller

1.Parameters of controller

Total drive pixels: 40960 points equal to 160PCS led panels (Calculated by 256 points each panel).

Drive ranges:

256*160 (Horizontal pixels: 256); vertical pixels: 160 (Converted into led panels: 16*10).
160*256 (Horizontal pixels: 160) Vertical pixels: 256 (Converted into led panels: 10*16).
It requires a special adapter to drive the full color light panel. The adapter only supports 128 points in vertical direction.

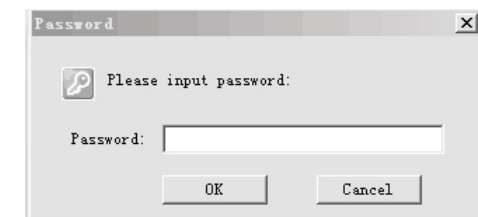
2.Software installation

Run the file "PowerLED_2.87.4.exe" (The version is for an example here), choose the language, and follow the steps to finish the installation.

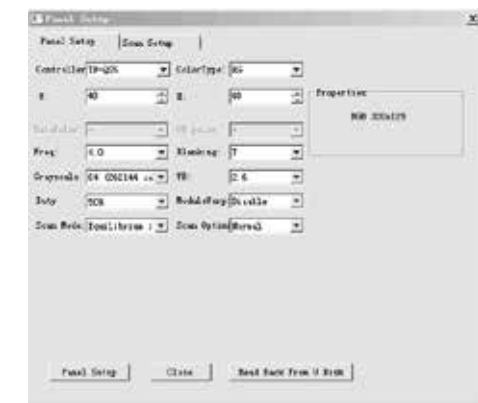


3.Software operation

Run software, select **Tools Panel Setup**, input password.



Input "168", click "OK"



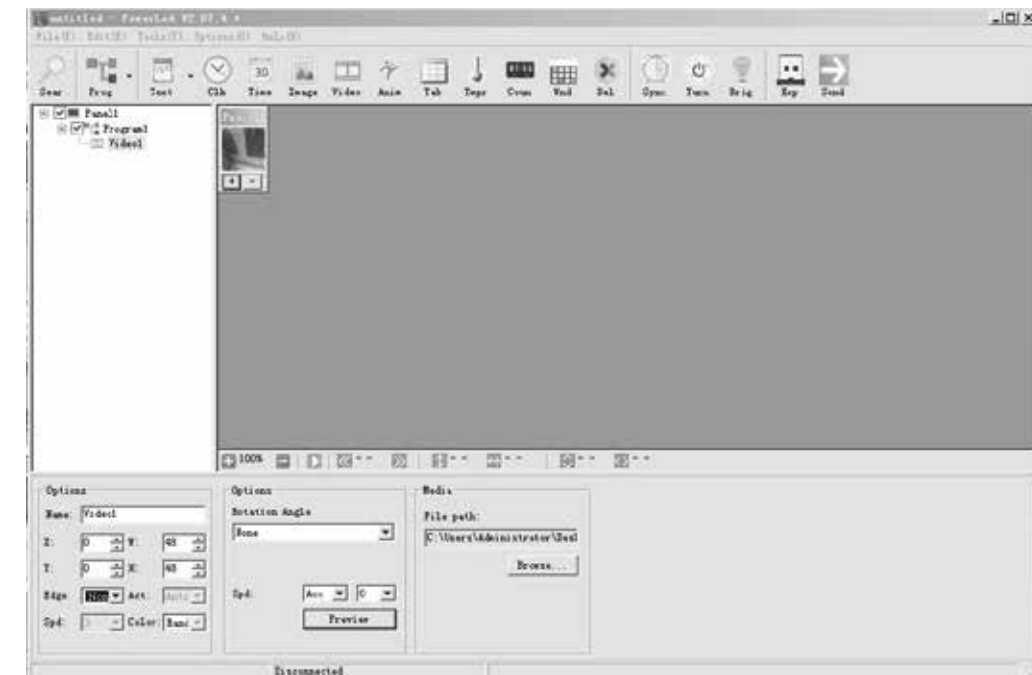
Controller: TF-QS5
ColorType: White colorRG
Full colorRGB

W: Horizontal pixels
Calculation method: One led panel with 16 pixels,
multiplied by the quantities of the panel in horizontal.
H: Vertical pixels
Calculation method: One led panel with 16 pixels,
multiplied by the quantities of the panel in vertical.

Click Panel Setup button to finish, and then go back to home screen.

4.Parameters of controller

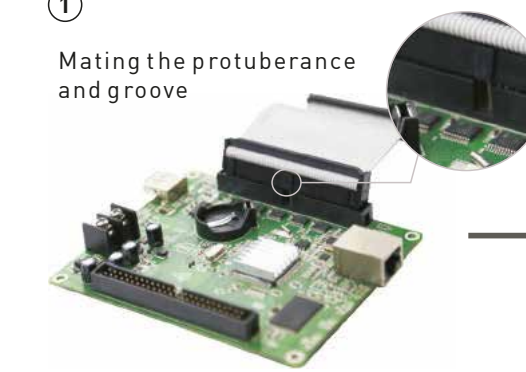
Select Panel1, click Prog Video (Open the video) Exp (Insert USB flash drive into computer)
Save, remove USB flash drive from computer. Upload data into controller by USB flash drive
then.Power on the lightbox before inserting the USB flash drive.



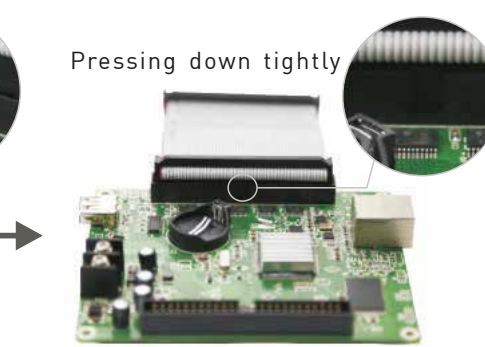
★ Precautions

①

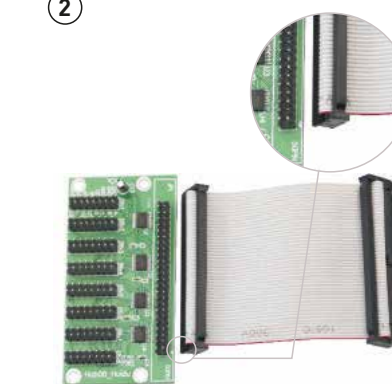
Mating the protuberance and groove



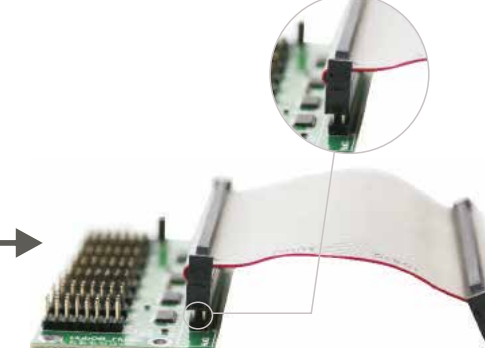
Pressing down tightly



②



Mating the red line and the triangular mark

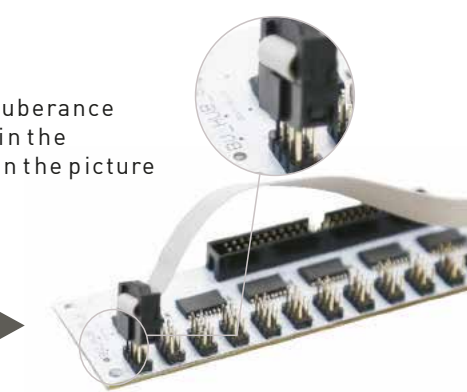
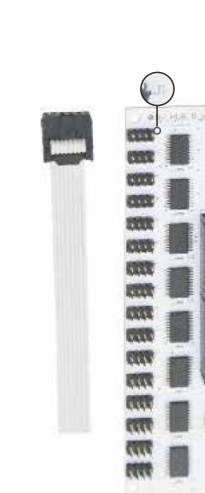


Pressing down tightly

③



Put J1 and the protuberance side of female end in the direction showing in the picture



Keep the protuberance side outside and plug in

★ Recycling

Important: LED lighting products belong to the category of electronic products, please recycle according to the relevant WEEE directives.



Dynamic Lightbox

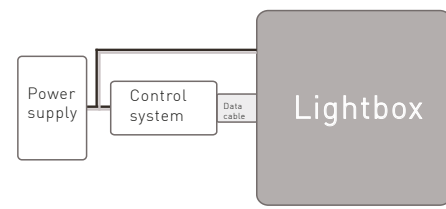
Installation Instruction

916 418 990
apil@apil.es
www.apil.es

Overview

The dynamic lightbox is the combination of light and picture to form a colorful animation effect. It is vivid and energy-saving comparing with the conventional lightbox. The features are modular design, easy installation, little maintenance, and recyclable.

Structure



Components

Power supply

Installation: Magnetic method / Aluminium profile + Clips.
Spec: Input voltage: 5VDC
Remark: To retain 20% of total load of power supply.

Controller



Power

Control system



Controller



Adapter



8P/16P gray flat cable



Power cord



Aluminium profile



Middle connecting piece



Base



Upper and lower connecting piece



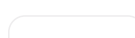
Installation magnet



Aluminium profile + Clips



Aluminium profile + Clips



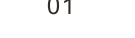
Aluminium profile + Clips



Aluminium profile + Clips



Aluminium profile + Clips



Aluminium profile + Clips



Aluminium profile + Clips

Screw



Screw

Aluminium profile + Clips.
Spec: PWM5*8mm.
Remark: Calculation method: (Number of led panel + Number of middle connecting piece)*4.

Screw



Screw

Aluminium profile + Clips.
Spec: PA4*13mm drilling tail.
Remark: Each upper and lower connector of 2 drilling tail screws.

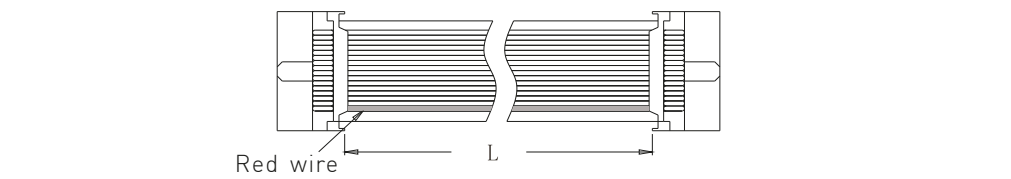
Ruler



Ruler

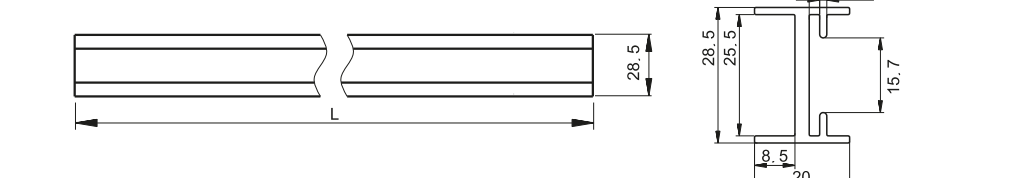
Magnetic installation / Aluminium profile + Clips.
Remark: Positioning and mounting Aluminium profile or galvanized rod.

Drawing: Gray flat cable



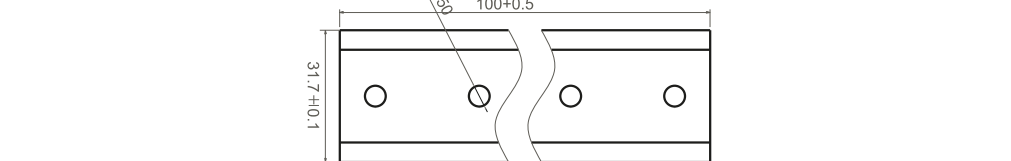
Name	8P-gray flat cable					16P-gray flat cable				
L (mm)	600	900	1200	1500	1800	600	900	1200	1500	1800
Matched with	NW					NF				

Install Aluminum Profile

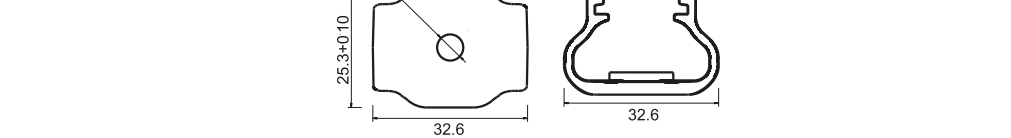


Name	Aluminum Profile1	Aluminum Profile2
L (mm)	640	960

Middle connecting piece



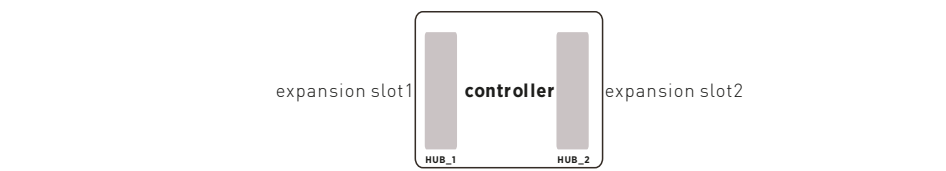
Base



Note: The above is a simple drawing. If you need detailed drawings, please contact Blueview or sales.

Parts of lightbox

1. The standard controller has two expansion slots; if use only one slot, make sure 50P cable connect to HUB_1, if use two slots, connect to HUB_1 first, and then to HUB_2.



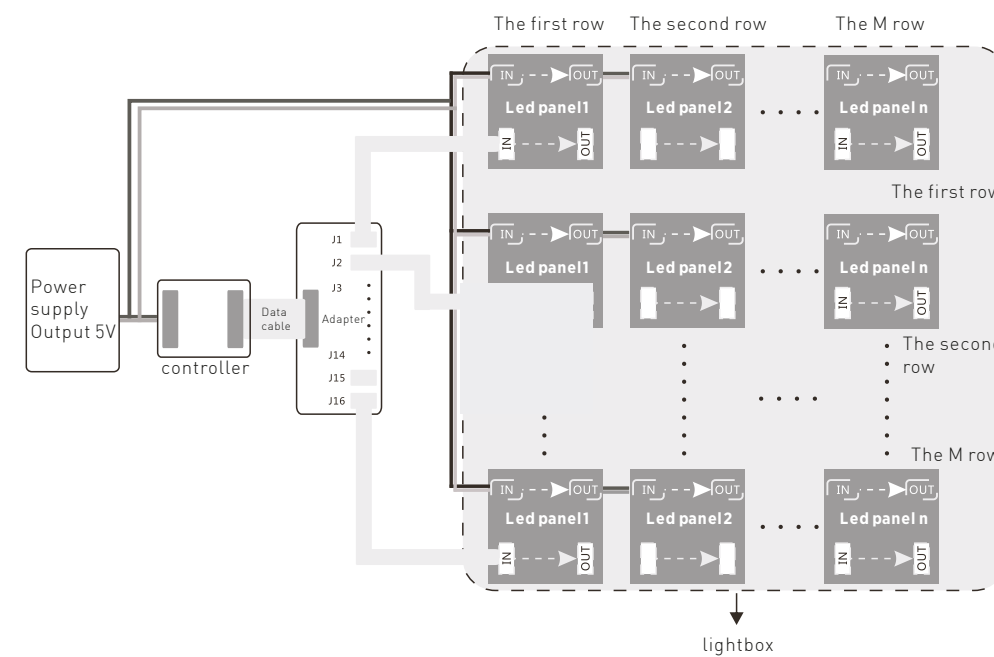
2. The drive range of the controller: (In this example, a single LED is one pixel)

256*160 (Horizontal pixels: 256; Vertical pixels: 160) convert to led panels: 16*10
 That is: n = 16 columns, M = 10 rows, column or row number is not greater than the above values;

160*256 (Horizontal pixels: 160; Vertical pixels: 256) convert to led panels: 10*16
 That is: n = 10 columns, M = 16 rows; column or row number is not greater than the above values;

The J1 port of the adapter is connected to the first row, the J2 port is connected to the second row, and so on.

Schematic drawing of dynamic lightbox



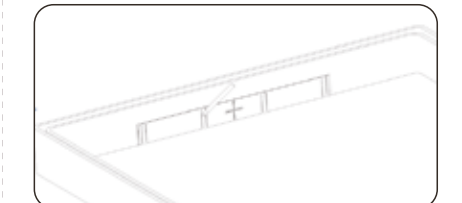
Installation of dynamic lightbox

Aluminium profile + Clips

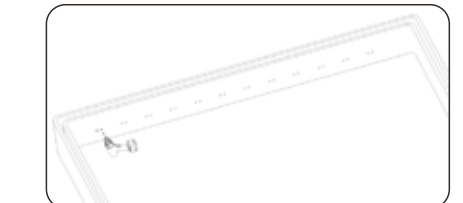
Project:
 Size of lightbox: 1m*1m.
 Size of led panel: 320mm*320mm.
 Model No.: NW.
 Led panel: 1000mm/320mm=3PCS (Total: 3*3PCS).
 Power supply: 9PCS*25W=225W (Not all leds will light on at the same time in animation playing, so a 200W power supply will work well).
 Controller: One piece with a 8P cable.

Steps

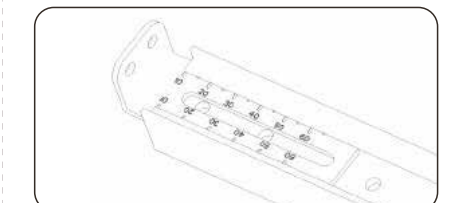
01 Take the center of the cross as midpoint and mark it



02 Drill holes with a 3mm drill



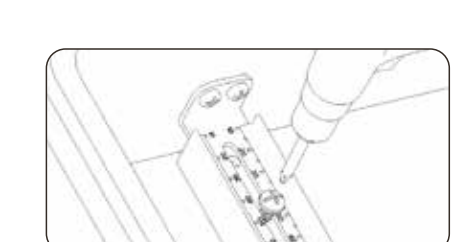
03 Insert upper and lower connecting piece into aluminum profile



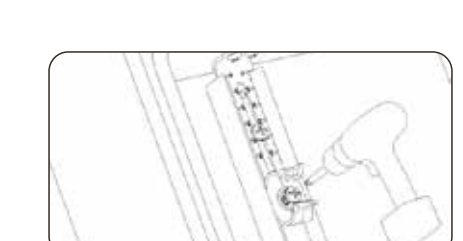
04 Secure to the frame with screws



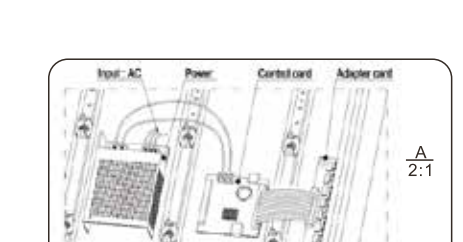
05 Adjust height and then tighten it



06 Screw the plastic clips to the aluminum profile

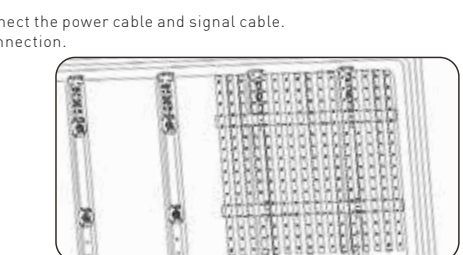
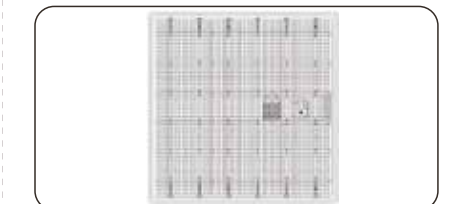


07 Fix the power supply, controller and adapter



Note: Input voltage of power supply is 5VDC.
 The depth of power supply is less than 32mm.
 One power supply is recommended to connect with 21 to 25PCS led panels based on a 200W power supply (5V 40A).
 Controller connect to a nearby 5V power supply.

08 Clip the led panels into the slots from right to left and connect the power cable and signal cable.
 Note: Do not have more than 4PCS led panels in series connection.



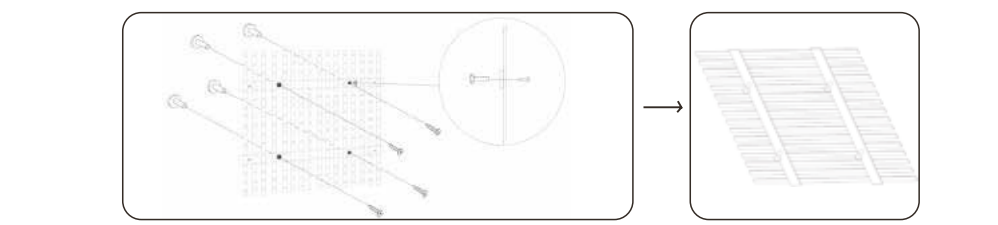
Wiring sequence: Seeing **Precautions**
 Remarks: The installation differences between full color NF and white color NW are: 16P cable and B type adapter for NF, 8P cable and A type adapter for NW.

Magnet Installation

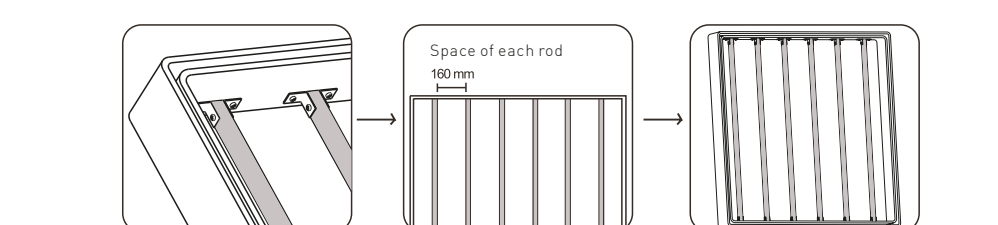
Project:
 Size of lightbox: 1m*1m.
 Size of led panel: 320mm*320mm.
 Model No.: NW.
 Led panel: 1000mm/320mm=3PCS (Total: 3*3PCS).
 Power supply: 9PCS*25W=225W (Not all leds will light on at the same time in animation playing, so a 300W power supply will work well).
 Controller: One piece

Steps

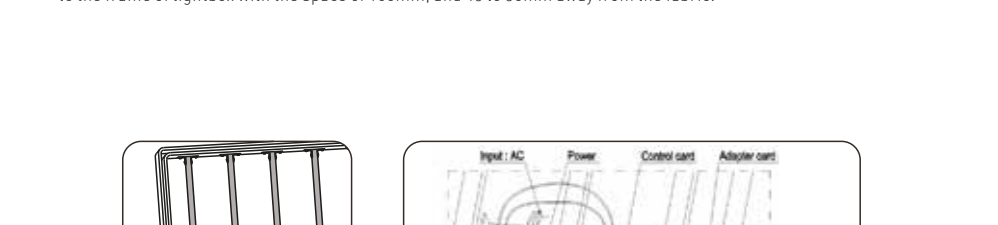
01 Fix magnets



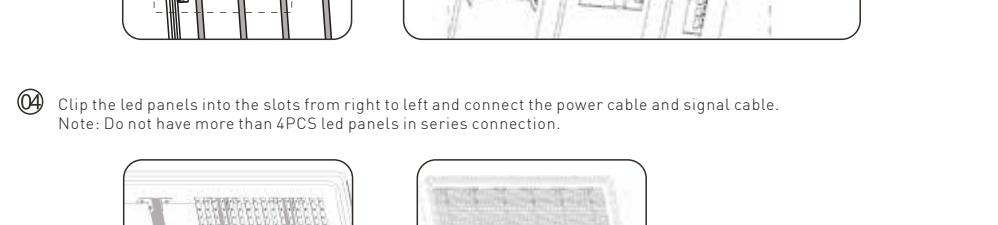
02 Fix the galvanized iron rods (L*W20mm*H20mm, length depending on the specific of lightbox) to the frame of lightbox with the space of 160mm, and 45 to 50mm away from the fabric.



03 Fix the galvanized iron rods (L*W20mm*H20mm, length depending on the specific of lightbox) to the frame of lightbox with the space of 160mm, and 45 to 50mm away from the fabric.



04 Clip the led panels into the slots from right to left and connect the power cable and signal cable.
 Note: Do not have more than 4PCS led panels in series connection.



Wiring sequence: Seeing **Precautions**
 Remarks: The installation differences between full color NF and white color NW are: 16P cable and B type adapter for NF, 8P cable and A type adapter for NW.

